IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of: Tadayuki KAMEYAMA et al.

Group Art Unit: 1792

Application Number: 10/522,618

Examiner: Nathan H. EMPIE

Filed: January 31, 2005

Confirmation Number: 6711

For:

METHOD OF PRODUCING POLARIZING FILM, POLARIZING FILM PRODUCED BY THE METHOD AND OPTICAL FILM

Attorney Docket Number:

052009

Customer Number:

38834

DECLARATION UNDER 37 C.F.R. 1.132

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Sir:

- I, Manabu Miyazaki, a citizen of JAPAN, hereby declare and state unequivocally:
- 1. I am currently employed in the Development Section 4 of the Development Department of the Optical Related Division in Nitto Denko Corporation. I joined Nitto Denko Corporation in April 2006.
- I received a master's degree in Osaka University, Graduate School of Engineering
 Science in 2006.
- 3. The following experiments and evaluations were performed by me or under my supervision and review, and are reported in the attached Table. The attached Table shows these additional experimental results together with experimental results reported in the

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specification of the present application.

4. Polarizing plates were produced in the same way as in Example 1 in the

specification of the above-identified application except for using the conditions in the

attached table. The display unevenness of the obtained polarizing plates was evaluated by

the method of the present application for evaluating display unevenness, by illuminating

one sample of each example of the polarizing plates using a backlight, and observing the

polarizing plates from a front direction, except that a backlight E was used instead of

backlights A-D, and three evaluations were made instead of a single evaluation.

5. A backlight E was used instead of the backlights A-D of the present application,

because the backlights A-D are of an old type at a time of filing of the present application

(i.e., in 2002), so that they are currently unavailable. The backlight E, which is currently

available, is of the same type as that of the backlight A. In order to facilitate the

comparison between the data obtained using the backlight A (data in the specification of the

present application) and the data obtained using the backlight E (current additional data), an

additional evaluation was made for the polarizing plates of Example 1 and Comparative

Example of the present application using the backlight E. As shown in the additional

evaluations of the polarizing plates of Example 1 and Comparative Example 1, the

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evaluation of display unevenness using the backlight E is slightly degraded, compared with

that obtained using the backlight A, because the brightness of the backlight E has enhanced

compared with that of the backlight A.

6. Three evaluations were made of each sample by three evaluators instead of a

single evaluation. Thus, in the case where the evaluations are divided into "6", "6", and

"7", an average value "6.3" is used as an evaluation.

7. As shown in the Table, the conditions in Example 1 and Additional Examples 1

and 2 are the same except for the temperature of a swelling bath of 25, 32, and 42°C,

respectively. The evaluation of the display unevenness is 6.3 in Example 1, 6.7 in

Additional Example 1, and 6.7 in Additional Example 2, which are substantially the same.

Thus, it is understood that the evaluation of display unevenness is satisfactory for varying

swelling bath temperatures.

8. Furthermore, the conditions in Example 3 and Additional Example 3 are the same

except for the period (b) of 110 and 75 seconds, respectively. The evaluation of display

unevenness is 7 in Example 3 and 6.3 in Additional Example 3, which are substantially the

same. Thus, it is understood that the evaluation of display unevenness is satisfactory for

varying periods (b) within the scope of the claims in the present application.

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9. The conditions in Example 8 and Additional Example 2 are the same except for

the period (a) of 6 and 3.5 seconds, respectively. The evaluation of display unevenness is 7

in Example 8 and 6.7 in Additional Example 2, which are substantially the same. Thus, it is

understood that the evaluation of display unevenness is satisfactory for varying periods (a)

within the scope of the claims in the present application.

10. Furthermore, the conditions in Example 1 and Additional Example 4 are the

same except for the stretch ratio in a swelling bath of 2.5 and 1.9, respectively. The

evaluation of display unevenness is 6.3 in Example 1 and 6 in Additional Example 4, which

are substantially the same. Thus, it is understood that the evaluation of display unevenness

is satisfactory for varying stretch ratios, i.e., the stretch ratio in a swelling bath hardly

influences the evaluation of display unevenness.

11. Turning to the Comparative Examples, the conditions in Additional Example 3

and Comparative Example 1 are the same except for the period (a) of 11 seconds and 14

seconds, respectively. The evaluation of display unevenness is 6.3 in Additional Example 3

and 4 in Comparative Example 1. Thus, a remarkable difference can be confirmed

therebetween. Accordingly, it is understood that the period (a) brings about a remarkable

difference in effects between the inside and the outside of the scope of the claims.

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The undersigned declares that all statements made herein of his/her own knowledge

are true and that all statements made on information and belief are believed to be true; and

further that these statements were made with the knowledge that willful false statements

and the like so made are punishable by fine or imprisonment, or both, under § 1001 of Title

18 of the United States Code and that willful false statements may jeopardize the validity of

the application or any patent issued thereon.

Date:

Signature:

Manabu Miyazaki

Encl.: Data table

	Temper ature of	Stretch ratio in	Stretch ratio in	Period (a) : period from time when film comes	Period (b): period from time when film comes into contact	Period ducing which film is soaked in ewelling bath	Evaluation of c	Evaluation of display unevenness
	swelling bath	swelling bath	43		with first guide roll to time when film comes into contact with second guide roll		Additional data	Data in specification
Example (25°C	2,5 times	6 times of ray film	3.5 seconds	60 seconds	92 зесопдв	6.3	- -
Example 2	25°C	2.5 times	6 times of raw film	2 seconds	35 seconds	63 весопдв	1	4
Example 3	25°C	2,5 times	6 times of raw film	II seconds	110 sexonds	130 seconds	ates	4
Example 5	32°C	L.9 times	6 times of raw film	5 seconds	77 seconds	121 seconds	l.	t.
Example 6	32.C	L.9 times	6 times of raw film	II seconds	110 seconds	128 seconds	-	9
Example 7	32.C	2.1 times	2.9 bimes of raw film	2 seconds	35 зекопдв	63 seconds	_	7
Example 8	42°C	2.5 times	6 times of xay film	е эвсолдз	60 seconds	95 seconds	ı	1.
Additional Example 1	32.C	2.5 times	6 times of raw film	3,5 вэсолдэ	60 seconds	92 seconds	6.7	J
Additíonal Example 2	42°C	2.5 times	6 times of raw film	3,6 весопдз	60 seconds	92 seconds	6.7	
Additional Example 3	25°C	2.5 times	6 times of raw film	11 seconds	75 seconds	94 seconds	8.3	1
Additional Example 4	25°C	1.9 бітез	6 times of raw film	3.5 eeconds	60 neconds	92 eeconds	9	1
Comparative Example 1	್ಯಾಣ	2.5 times	6 times of raw film	14 seconds	75 seconds	94 seconds	4	4
Comparative Example 2	25°C	2.5 times	6 times of raw film	0.3 seconds	4 seconds	15 seconds	-	3
Comparative Example 5	32°C	2.8 times	3.5 times of raw film	15 seconds	5 seconds	21 seconds	1	8

*Examples 4, 9 and Comparative Examples 3, 4 are excluded since they exemplify the case of using one guide roll